

CLASSIFICATION:

**UNCLASSIFIED**

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>February 2000</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY//BA-7</b>					R-1 ITEM NOMENCLATURE Program Element (PE) Name and No. Submarine Acoustic Warfare Development/0101226N					
COST (\$ in Millions)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total PE Cost		7.871	3.178	0.879	0.997	1.103	3.089	8.891	CONT.	CONT.
Submarine Defensive Warfare/V1265		7.871	3.178	0.879	0.997	1.103	3.089	8.891	CONT.	CONT.
Quantity of RDT&E Articles										
<p>A. Mission Description and Budget Item Justification: This project develops a Submarine Defensive Warfare System (SDWS) to improve the effectiveness and survivability of all classes of US submarines. Project efforts consist of a new acoustic threat intercept system (AN/WLY-1) that will have threat platform sonar and torpedo recognition capability for early detection, classification, and tracking of threats. It will allow radius of curvature and multipath ranging. The system will also include a control subsystem for launch management of all onboard countermeasure devices and launchers. Next Generation Countermeasure (NGCM) including Weapons Analysis Facility (WAF) simulation analysis capability provides the US Navy with testing of hardware and software within detailed representations of acoustic environments.</p> <p>1. (U) FY 1999 Accomplishments: - (\$7.871) Completed sensor and software development and continued Phase II design review.</p> <p>2. (U) FY 2000 Plan: - (\$3.178) Complete Phase II Design Review and conduct TECHEVAL/OPEVAL for the AN/WLY-1 system.</p> <p>3. (U) FY 2001 Plan: - (.879) Perform WAF, Threat Weapon Vulnerability and Countermeasure Effectiveness Analysis.</p>										

R-1 SHOPPING LIST - Item No. 159 - 1 of 159 - 5

**Exhibit R-2, RDT&E Budget Item Justification**  
(Exhibit R-2, page 1 of 5)

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: <b>February 2000</b>			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE			
<b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY//BA-7</b>						Program Element (PE) Name and No. Submarine Acoustic Warfare Development/0101226N			
B. Program Change Summary:									
				FY 1999	FY 2000	FY 2001			
FY 2000 President's Budget:				8.328	3.195	0.871			
Appropriated Value:				8.328	3.195				
Adjustment to FY 1999/2000 Appropriated Value/									
FY 2000 President's Budget:				-0.457	-0.017	0.008			
FY 2001 PRES Budget Submit:				7.871	3.178	0.879			
Funding: FY 1999: Reduction due to undistributed reductions and -\$ .106 SBIR reduction									
FY 2000: Reductions due to undistributed reductions. \$.038M of the extramural program is reserved for SBIR assessment IAW 15 USC 638.									
FY 2001: Reductions due to undistributed reductions.									
Schedule: Not Applicable									
Technical: Not Applicable									
C. Other Program Funding Summary:									
OPN BLI: 221000/221005 Submarine Acoustic Warfare Systems									
	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Cost
	7.253	11.140	10.697	13.876	21.327	30.467	33.211	CONT.	CONT.
D. Acquisition Strategy: Multi-Year Competitive Contract for the Backfit market starting in FY01.									
E. Schedule Profile: See Attached Schedule									

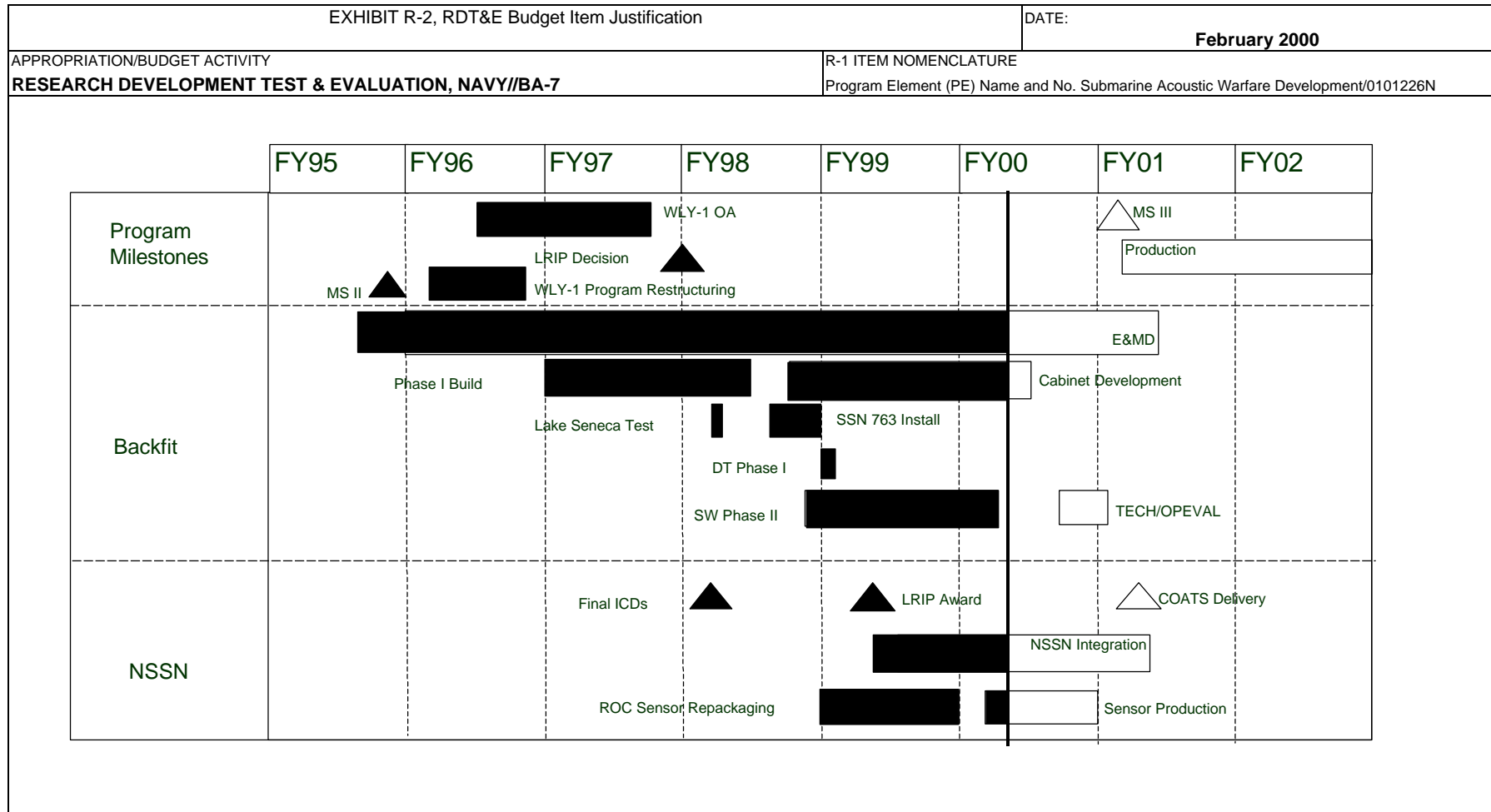
R-1 SHOPPING LIST - Item No. 159 - 2 of 159 - 5

**Exhibit R-2, RDT&E Budget Item Justification**  
(Exhibit R-2, page 2 of 5)

**UNCLASSIFIED**

CLASSIFICATION:

UNCLASSIFIED



R-1 SHOPPING LIST - Item No. 159- 3 of 159 - 5

Exhibit R-2, RDT&E Budget Item Justification  
(Exhibit R-2, page 3 of 5)

UNCLASSIFIED

CLASSIFICATION:

UNCLASSIFIED

Exhibit R-3 Cost Analysis (page 1)										DATE: <b>February 2000</b>		
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT			PROJECT NAME AND NUMBER					
<b>RDT&amp;E, N/BA-7</b>				<b>Sub Acoustic Warfare Dev/0101226N</b>			<b>Submarine Defensive Warfare Systems/V1265</b>					
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 99 Cost	FY 99 Award Date	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/CPAF	Northrop Grum Melville, NY	31.500	4.045	12/98	1.367	01/00			0.000	36.912	36.912
Ancillary Hardware Development											0.000	
Systems Engineering	C/CPAF	General Dyn Groton, CT	4.778	0.000		0.000				0.000	4.778	5.717
Systems Engineering	WR	PNSY	0.730	0.000		0.000				0.000	0.730	0.830
Systems Engineering	WR	NUWC Newport, RI	0.000	2.763	11/98	0.025	11/99	0.604	11/00	CONT.	CONT.	CONT.
Licenses											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Product Development			37.008	6.808		1.392		0.604		0.000	45.812	
Remarks: Award Fees: (FY - Amount Budgeted - % Awarded) FY92 - \$205,367 - 57%      FY95 - \$63,010 - 49%      FY98 - \$220,000 - 74% FY93 - \$184,830 - 66%      FY96 - \$271,199 - 88%      FY99 - \$234,566 - 77% FY94 - \$154,025 - 78%      FY 97 - \$258,198 - 83%      FY00 - \$124,039 - TBD												
Development Support Equipment											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
GFE											0.000	
Miscellaneous	WR		0.000	0.196	Various	0.239		0.000		CONT.	CONT.	CONT.
Subtotal Support			0.000	0.196		0.239		0.000		0.000	0.435	
Remarks:												

R-1 SHOPPING LIST - Item No. 159 - 4 of 159 - 5

**Exhibit R-3, Project Cost Analysis**  
(Exhibit R-3, page 4 of 5)

UNCLASSIFIED

CLASSIFICATION:

UNCLASSIFIED

Exhibit R-3 Cost Analysis (page 2)								DATE: <b>February 2000</b>				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
<b>RDTE&amp;E, N/BA-7</b>			<b>Sub Acoustic Warfare Dev/0101226N</b>			Submarine Defensive Warfare Systems/V1265						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 99 Cost	FY 99 Award Date	FY 00 Cost	FY 00 Award Date	FY 01 Cost	FY 01 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	OPTEVFOR Norfolk, VA	0.055	0.000						0.000	0.055	0.055
Operational Test & Evaluation	WR	OPTEVFOR Norfolk, VA				1.047	03/00				1.047	1.175
Operational Test & Evaluation											0.000	
GFE											0.000	
Subtotal T&E			0.055	0.000		1.047		0.000		0.000	1.102	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support	C/CPFF	RM Vredenburg Reston, VA	0.750	0.767	12/98	0.400	11/99	0.200	12/00	CONT.	CONT.	CONT.
Travel		PMS415	0.110	0.100		0.100		0.075		CONT.	CONT.	CONT.
Labor (Research Personnel)											0.000	
Overhead											0.000	
Subtotal Management			0.860	0.867		0.500		0.275		0.000	2.502	
Remarks:												
Total Cost			37.923	7.871		3.178		0.879		CONT.	CONT.	CONT.
Remarks:												

R-1 SHOPPING LIST - Item No. 159 - 5 of 159 - 5

**Exhibit R-3, Project Cost Analysis**  
(Exhibit R-3, page 5 of 5)

UNCLASSIFIED